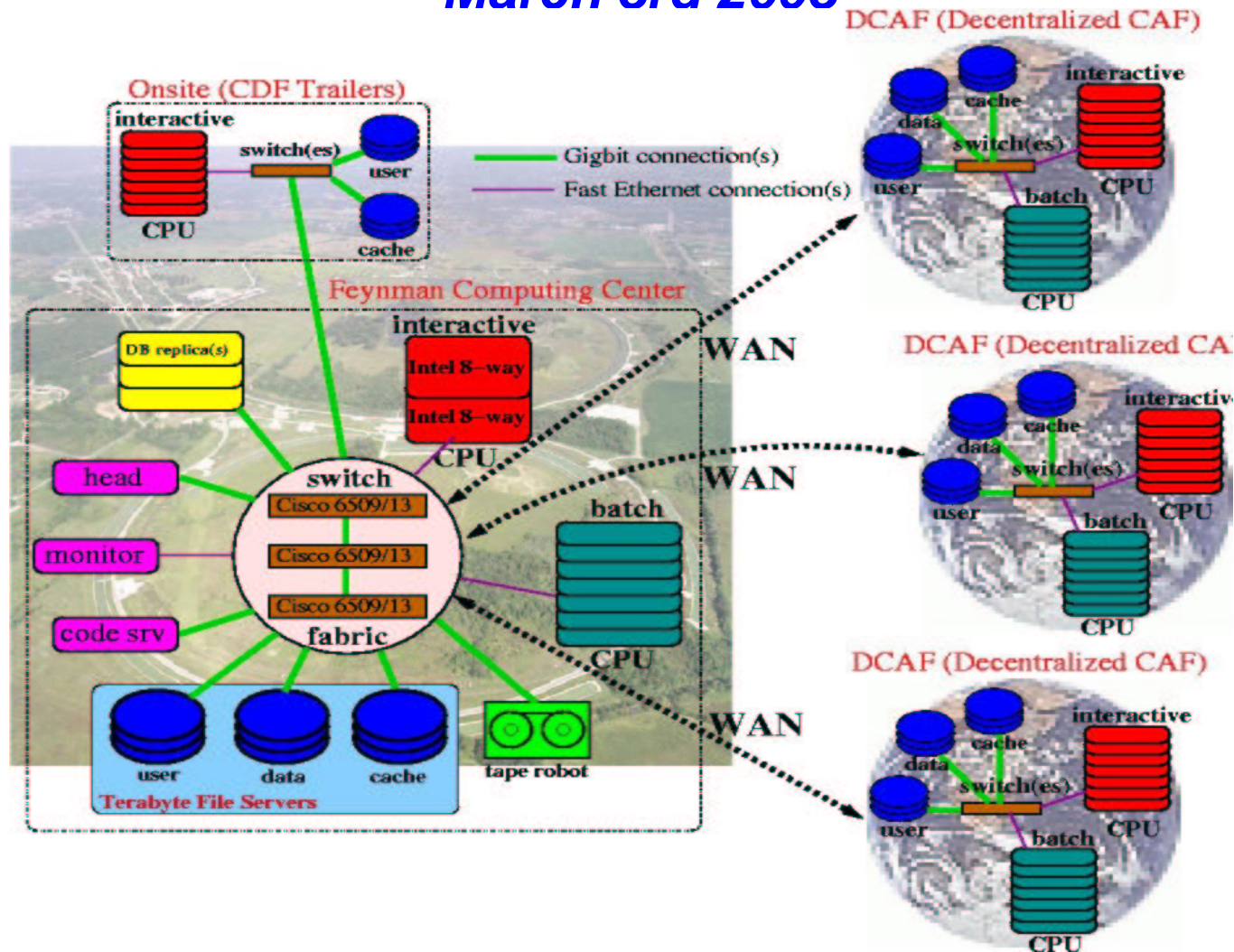




# User Analysis Computing

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# Short Term Deliverables

## Winter 03:

depend on CAF1, CAF2 & static file servers  
not all CAF CPUs have equal access to data  
optionally use dCache

## Summer 03:

depend on CAF & dCache  
all CAF CPUs have equal access to data  
(no more jungle of instructions)  
static files on disk served by dCache  
(static file servers only under duress)  
optionally SAM & JIM = CDF grid



# Performance Winter 03

	Static files	rest
# of CPUs:	326	268
CPU utilization:	~80%	~50%
I/O into exe:	~170MB/s	~40MB/s

**Expect ~30% CPU increase for summer**

event sizes:	80-345kB (hbot0h vs gjet08)
event rate:	3Hz (Bs analysis on hbot0h with retracking)
total dataset:	26TB/50TB/270TB static/physics/total

**Resource usage only poorly understood**



# **Preparations for summer**

- **Hardware & OS upgrade on fs**
  - 76 fileservers require disk firmware upgrade
  - 91 fileservers require OS upgrade
  - Repeat study of bit errors after upgrades
- **CAF**
  - Upgrade of system software for scalability
  - Work on monitoring
- **Dcache**
  - Upgrade admin hardware
  - Operations under large load
  - Work on monitoring
- **Organize physics groups**

**Start extensive upgrades asap!**



# Conclusions

- **Winter 03 wasn't our idea of a good time.**
- **Nevertheless, performance remarkable.**
- **For Summer 03:**
  - **fix problems**
  - **Improve ease of use**
  - **More efficient use of resources**
  - **=> Use system as designed**
  - **Allow user to play with CDF grid**